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<p>STARTING MATERIALS</p>	<p>EXAMPLE</p> <p>1-ethoxycarbonyl-3-pyrrolidone (100 g) was dissolved in MeOH (300 ml) and a soln. of sodium borohydride (6.02 g) in H₂O (40 ml) was added dropwise at 0°C over 30 mins., then stirred for 15 mins. Conc. HCl (14.3 ml), satd. NaCl soln. (250 ml) and CH₂Cl₂ (300 ml) were added to the reaction mixt. The organic layer was fractionated, washed with satd. aq. NaCl soln. (100 ml), dried over anhydrous MgSO₄, and the solvent was distilled off under reduced press. to give 1-ethoxycarbonyl-3-hydroxypyrrolidine (100 g, 98.7% yield) as an oil.</p> <p>Followed by prepn. of: 1-ethoxycarbonyl-3-mesyloxypyrrolidine; 1-ethoxycarbonyl-3-phthalimidopyrrolidine; 3-aminopyrrolidine dihydrochloride; and finally 3-aminopyrrolidine (III). (4ppW69WSDwgNo0/0).</p>
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J61057579-A

<p>86-116676/18 B03 KANT-29.08.84 KANTOH ISHISEIYAKU *J6 1057-580-A 29.08.84-JP-180212 (24.03.86) A61k-31/39 C07d-205/08 C07d-235 C07d-403/04 C07d-405/04 New 2-azetidinone derivs. with carcinostatic and antibacterial activity C86-049841</p> <p>2-Azetidinone derivs. of formula (I) are new:</p> <p>R_1 = furyl or methoxyphenyl; R_2 = benzimidazolyl, phenyl, methoxyphenyl, methoxycarbonylphenyl or ethoxycarbonylphenyl; and R_3 = H, phenyl or chloro.</p> <p>USE</p> <p>(I) have excellent physiological activity as carcinostatic, immuno-controlling and antibacterial agents and are useful as pharmaceuticals.</p>	<p>B(6-D5, 7-D1, 12-A1, 12-D2, 12-G7) 5 3 0 1 7 3</p> <p>PREPARATION (A)</p> <p>STARTING MATERIALS</p> <p>(III) is a reactive and unstable compd. It is pref. prepd. in situ by treating an acetyl chloride deriv. of formula (V) with an organic amine (IV) (pref. 1-3C alkylamine).</p>
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J61057580-A

<p>EXAMPLE</p> <p>A soln. contg. chloroacetylchloride in anhydrous benzene (10 ml) was added dropwise to a soln. contg. (II: R_1 = furyl, R_2 = phenyl) (0.01 mol.) and Et₃N (1.52 g, 0.015 mol.) in anhydrous benzene (50 ml) at 5-10°C with stirring. The reaction mixt. was allowed to rise to room temp. and stirred for 2 hrs. The Et₃N.HCl was removed and the solvent distilled off under reduced press. The residue was chromatographed (silica gel: eluent, hexane-EtOAc) (5:1 - 50:1) to give (I: R_1 = 2-furyl, R_2 = phenyl, R_3 = H). (8ppW69WSDwgNo0/0).</p>	
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